UNM Valencia
MATH 1350-501, Intro Statistics
Fall 2024

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Office Location: Tome Campus LRC 107
Office Hours: Mondays: 1200-1300 (Online), 1500-1600 (in person) Tuesdays: 1400-1600 (Online), Wednesdays: 1500-1600 (Online), and by appointment
Class time and location: Tuesdays and Thursdays, 1330-1445, VACTC-108
MECS Division Chair: Ariel Ramirez (aramirez8@unm.edu)

This is a three credit-hour course. Class meets for two 75-minute sessions of direct instruction for fifteen weeks during the Fall 2024 semester. Please plan for a minimum of six hours of out-of-class work (or homework, study, assignment completion, and class preparation) each week

Text: The Basic Practice of Statistics (ninth edition), Achieve Package (e-book). Achieve is the online learning system which accompanies the textbook and includes an e-book. Achieve is required for MATH 1350 (Stat145). If you don't use Achieve, your Achieve Assignments scores will be 0s, which is 45% of your course overall grade. **Access Code:** Achieve Access codes are available from the UNM bookstore, or the publisher (Online), or with a lower price through inclusive access. Hard text copies are not required since Achieve includes an e-book. **This course comes with Inclusive Access (IA). You will receive an email that contains instructions for inclusive access to the book via the RedShelf on UNM Learn. Please, read the instructions carefully and follow what is required to have access to the book at a discounted price.**

Student Instructions: Follow these steps to get started.

- Go to https://achieve.macmillanlearning.com/start to log in or create an account.
- If you click on "I need to enroll in a course" you will be prompted to enter the Course ID
- Course ID: **wmvxw5**

Where is your e-book? To access your e-book, click on the e-book option on the left sidebar of your course site. Create an account or log in with an existing Macmillan Learning eBook account. Introduction to Assessments for students on Achieve Learning: Please follow the links bellow in order to know how to use Achieve learning: Registration information: https://macmillan.force.com/macmillanlearning/s/.

Achieve slides for LMS integration (inclusive access): https://docs.google.com/presentation/d/1BgD52StOlr1vYB7AIQQyoec7TvB3q9i_0p1u9EvaF7E/edit#slide=id.g3dbd7ae118_3_10

Course description: This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. (3 Credit Hours).

Prerequisites: MATH 1130 is NOT a prerequisite for MATH 1350. Successful completion of MATH 1170 or (MATH 1215X and MATH 1215Y) or MATH 1220 or MATH 1230 or MATH 1240 or MATH 1250 or MATH 1430 or MATH 1440 or MATH 1512 or MATH 1522 or MATH 2530, or minimum ACCUPLACER score ≥ 262 (QRAS) or ≥ 233 (A&F), or ACT score ≥ 20, or SAT score ≥ 520.

Course Outcomes: This course is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world. Student Learning Objectives for this course is given at the end of this syllabus.

Other Requirements:

- Reliable access to a computer or tablet, and Internet. A computer (laptop or desktop) is recommended. Preferred browsers are Chrome, Firefox, or Safari. The preferred operating systems are Windows or Apple.
- Access to UNM Canvas requires use your UNM NetID to log into UNM Canvas. You may access it directly via `https://canvas.unm.edu/`
- Scientific or Graphing Calculator

Attendance/Participation (10%): You are expected to be on time for each class, stay the entire class, have the necessary course materials on hand, and participate in the lecture or group activities to receive full credit for attendance each day. Points will be deducted for unexcused absences and unexcused tardiness.

- **Absences:** If you know ahead of time you will miss class, send me an email with the date of the absence to receive and excused absence. Arrange before the next class to get notes from a classmate. The student is responsible for the material and information covered in class.

Online Homework (30%): Warning: Achieve will not work with iPad, Phone or these sorts of devices. Also on some laptops it may ask for some setting. Also, make sure you are allowing popups. Please, follow the instructions showing in error message or if you cannot figure it out contact tech support

The Achieve Learning technical support team can be reached by phone or by webform via the Student Support Community. Here are their hours and contact information:`https://macmillan.force.com/macmillanlearning/s/achieve` and Phone: (800) 936-6899

Where do you find your online assignments? You can find your online assignments on Achieve. On the main page, you can scroll down to find all the chapters that we are covering in this class. For each chapter, you will find Homework, Learning Curves, and other resources which are assigned. The due date in front of that. Additionally, these can be found in Canvas. Homework and Learning Curves are the only mandatory online assignments and will be part of your overall grade. (30%)

The rest of the activities are only for your practice and will not count as your grade. For each chapter assignments (Homework) will be assigned in Achieve and will be graded automatically. Points and the number of assignments will vary. For homework, you have five trials and it is not timed.

Labs (15%): Labs will be given in person. They will be taken in person and contain a series of questions based on the most recent one to two chapters that were covered in class. Labs are open note, open book, and will be done in groups. These are meant to be done in class and cannot be taken home to be finished. I will try to announce labs once class ahead of time, but these will not be done on scheduled days to ensure you come to class every day. Labs are due the day they are assigned.

Due Dates: For assignments, you will have an initial due date and a final due date. You can find the due dates on Achieve's main page. When you exceed the initial due date you will receive a 10% penalty for each day of delay before the final due date. You should be done with your assignments before the final due dates otherwise you will receive a zero. After the final due dates, no assignment

is accepted! This method keeps us up to date with our assignments and not letting ourselves get behind. Please, don't ask for an extension because it won't be fair to other students who are always on time.

How to be successful taking your online Assignments: After each lecture read the notes, finish the Learning curves and Stat Tutors (You can find a learning Curve and Stat Tutor for each topic), take the homework. Stat tutors are not part of your grade but if you need more assistance you should go through the Stat tutors. There are also Practice Quizzes that will be available for your practice.

Midterm Exam (20%) and Final Exam(25%): There is a midterm exam and a final exam during the class time period. See the outline for the dates. If you are ill or an unexpected event happens and you cannot make it to the exam, you have one week to make it up.

Grading: Course Averages: Attendance/Participation 10%, Online Homework 30%, Labs 15%, Midterm Exam 20%, Final Exam 25%. Total: 100%

Grading Scale:

A+ [98% - 100%]	**A** [93% - 98%]	**A-** [90% - 93%]
B+ [88% - 90%]	**B** [83% - 88%]	**B-** [80% - 83%]
C+ [78% - 80%]	**C** [70% - 78%]	
D [60% - 70%]		
F [0% - 60%]		

In the case where a student is unsuccessful in the course, if a grade is required for financial aid, please inform the professor.

Expectations:

- Students are expected to conduct themselves in a polite, courteous, professional, and collegial manner. When participating in discussions or interacting with me or other students be respectful at all times.

Support:

- Tutoring Hours: See my tutoring hours listed at the beginning of this syllabus. Feel free to come by or log in for online office hours or make an appointment to get help.
- Form study groups: You may work together with other members of our class.
- Resources to support study skill and time management are available through UNM-Valencia Learning Commons (Tutoring). Tutoring is available to you in math, science, writing, and other subjects through the Learning Commons: Learning and STEM Centers and Writing Center. In person tutoring is in these centers in the LRC (the building that also has the library). Tutoring in Zoom and, for writing, through email, is also available.

  Making use of tutoring is a fantastic way to use your resources and set yourself up to learn deeply and well in your courses. To schedule an appointment, please go to: Learning Commons Bookings

  If you are making an email appointment with the Writing Center, email your draft to tutor@unm.edu after you fill out the form above.

  If you have difficulty with the scheduling link above, would like an appointment in a subject not listed at that link, or have a question, email tutor@unm.edu. You'll get answers during business hours Monday through Friday. The webpage, with more details about available hours, is here: Learning Commons: Tutoring Services webpage. Center for Academic Program Support (CAPS). Many students have found that time management workshops can help them meet their goals (consult (CAPS) website under "services").

- Student Services: There are various services provided in our Student Services Department. See below about equal access. Also, we have a testing center, advising, and career placement available: Valencia Student Services
- Many students have found that time management workshops or work with peer tutors can help them meet their goals. These and are other resources are available through PASOS (Pathways to Articulation and Sustainable Opportunities for Students), TRIO Student Support Services, and Student Learning Support at the Center for Teaching and Learning.

Instructor Response Time: I routinely check the course for postings or emails, Monday (9 am) – Friday (5 pm), and sometimes on the weekend. You can anticipate a 24 to 48-hour response from me, Monday – Thursday. I will try and respond to all weekend (Friday afternoon to Sunday) emails and postings by noon on Monday or earlier. I prefer all communication through email or Canvas Learn.

Other Important Information:
Equal Access: In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as I am not legally permitted to inquire. Students who may require assistance in emergency evacuations should contact the instructor as to the most appropriate procedures to follow. Contact Accessibility Resource Center at 277-3506 for additional information.

If you need an accommodation based on how course requirement interacts with the impact of a disability, you should contact me to arrange an appointment as soon as possible. At the appointment, we can discuss the course format and requirements, anticipate the need for adjustments and explore potential accommodations. I rely on the Disability Services Office for assistance in developing strategies and verifying accommodation needs. If you have not previously contacted them, I encourage you to do so.

If you are a Valencia campus student, contact Equal Access Services at Valencia Campus, Cheryl Dilger at (505) 925-8910 or Valencia Student Services. If you are a main campus student, you can receive documentation from the main campus Accessibility Resource Center. I will not guarantee accommodation without the appropriate documentation.

Academic Integrity: Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy: `https://policy.unm.edu/regents-policies/section-4/4-8.html`. The policy states:

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

Academic Dishonesty is defined as:

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Title IX Statement: To meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees." This designation requires that any report of gender discrimination, which includes sexual harassment, sexual misconduct and sexual

violence, made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office Compliance, Ethics and Equal Opportunity (ceeo.unm.edu). For more information on the campus policy regarding sexual misconduct and reporting, see: https://policy.unm.edu/university-policies/2000/2740.html.

- Support: LoboRESPECT Advocacy Center, the Women's Resource Center, and the LGBTQ Resource Center all offer confidential services.

Respectful and Responsible Learning: We all have shared responsibility for ensuring that learning occurs safely, honestly, and equitably. Submitting material as your own work that has been generated on a website, in a publication, by an artificial intelligence algorithm, by another person, or by breaking the rules of an assignment constitutes academic dishonesty. It is a student code of conduct violation that can lead to a disciplinary procedure. Please ask me for help in finding the resources you need to be successful in this course. I can help you use study resources responsibly and effectively. Off-campus paper writing services, problem-checkers and services, websites, and AIs can be incorrect or misleading. Learning the course material depends on completing and submitting your own work. UNM preserves and protects the integrity of the academic community through multiple policies including policies on student grievances (Faculty Handbook D175 and D176), academic dishonesty (FH D100), and respectful campus (FH CO9). These are in the Student Pathfinder (https://pathfinder.unm.edu) and the Faculty Handbook (https://handbook.unm.edu).

- Support: Many students have found that time management workshops or work with peer tutors can help them meet their goals. These and are other resources are available through PASOS (Pathways to Articulation and Sustainable Opportunities for Students), TRIO Student Support Services, and Student Learning Support at the Center for Teaching and Learning.

COVID-19 Health and Awareness: COVID-19 Health and Awareness. UNM is a mask friendly, but not a mask required, community. If you are experiencing COVID-19 symptoms, please do not come to class. If you do need to stay home, please communicate with me; I can work with you to provide alternatives for course participation and completion. Let me, an advisor, or another UNM staff member know that you need support so that we can connect you to the right resources. Please be aware that UNM will publish information on websites and email about any changes to our public health status and community response
Support:

- PASOS Resource Center (505) 925-8546, pasps@unm.edu. The Resource Center is an on-campus center that serves as a "one-stop" for all non-academic needs of UNM-Valencia students.
- Student Health and Counseling (SHAC) at (505) 277-3136. If you are having active respiratory symptoms (e.g., fever, cough, sore throat, etc.) AND need testing for COVID- 19; OR If you recently tested positive and may need oral treatment, call SHAC.
- LoboRESPECT Advocacy Center (505) 277-2911 can offer help with contacting faculty and managing challenges that impact your UNM experience

Accomodations: UNM is committed to providing equitable access to learning opportunities for students with documented disabilities. As your instructor, it is my objective to facilitate an inclusive classroom setting, in which students have full access and opportunity to participate. To engage in a confidential conversation about the process for requesting reasonable accommodations for this class and/or program, please contact Accessibility Resource Center at arcsrvs@unm.edu or by phone at 505-277-3506. The UNM-Valencia Equal Access Services (Sarah Clawson, Coordinator), at (505) 925-8840 or by email at sjclawson@unm.edu.

- Support: Contact me at my email or in office/check-in hours. The UNM-Valencia Equal Access Services (Sarah Clawson, Coordinator), at (505) 925-8840 or by email at sjclawson@unm.edu., Or Accessibility Resource Center (https://arc.unm.edu) at arcsrvs@unm.edu or (505) 277-3506.

Citizenship and/or Immigration Status: All students are welcome in this class regardless of citizenship, residency, or immigration status. Your professor will respect your privacy if you choose to disclose your status. As for all students in the class, family emergency-related absences are normally excused with reasonable notice to the professor, as noted in the attendance guidelines above. UNM as an institution has made a core commitment to the success of all our students, including members of our undocumented community. The Administration's welcome is found on our website: https://undocumented.unm.edu.

For Military-Connected Students: There are resources on campus designed to help you succeed. You can approach any faculty or staff for help with any issues you may encounter. Many faculty and staff have completed the GREEN ZONE training to learn about the unique challenges facing military-connected students. If you feel that you need help beyond what faculty and/or staff can give you, please reach out to the Veterans Resource Center on main campus at 505-277-3181, or by email at https://vrc@unm.edu. The Veterans Coordinator at UNM-Valencia is in the Student Services Office, at 505-925-8560.

Land Acknowledgement: Founded in 1889, the University of New Mexico sits on the traditional homelands of the Pueblo of Sandia. The original peoples of New Mexico Pueblo, Navajo, and Apache since time immemorial, have deep connections to the land and have made significant contributions to the broader community statewide. We honor the land itself and those who remain stewards of this land throughout the generations and also acknowledge our committed relationship to Indigenous peoples. We gratefully recognize our history.

Semester Dates and Deadlines:

- Fall 2024– 16-week classes (deadlines will be different for first and second 8-week classes)
- Monday, August 19: First day of class, classes available in Canvas
- Monday, September 2: Labor Day, no class
- Friday, August 30, by 5:00 pm: Last day to add a class or to change credit hours or grade mode in LoboWEB.
- Friday, September 6: Last day to drop without "W" grade and with 100% refund on LoboWEB
- Friday, November 8 : Last day to drop without Student Services' permission on LoboWEB. Will receive "W" grade and will be responsible for tuition for the course.
- Thursday, December 5: Last day to drop with the permission form.
- Finals Week: Monday, December 9 – Saturday, December 14

MATH 1350 Course Student Learning Outcomes: Upon successful completion of the course, students will be able to:
1. Students will explain the general concepts of statistics. (Ch 1)
2. Students will presentation and description of data. (Ch 1 & Ch 2)
3. Students will summarize data using measures of central tendency and variation. (Ch 2)
4. Students will present the concepts of probability. (Ch 3)
5. Students will calculate probabilities using the standard normal distribution and relate them to areas under the curve. (Ch 3)
6. Students will give examples of independent and dependent variables. (Ch 4)
7. Students will calculate and interpret the linear correlation coefficient. (Ch 5)
8. Students will analyze data using regression and correlation. (Ch 4 & Ch 5)
9. Students will distinguish between populations and samples, and parameters and statistics. (Ch 15)

10. Students will interpret basic probabilities. (Ch 12)
11. Students will describe the relationship between the sampling distribution and the population distribution. (Ch 15)
12. Students will compute point and interval estimates. (Ch 16)
13. Students will perform hypothesis tests. (Ch 17 & Ch 20)

Tentative Schedule

Week	Dates	Sections/Topics	Assignments Due
1	08/19-08/25	Intro Chapter 1	
2	08/26-09/01	Chapter 2	
3	09/02-09/08	Chapter 2 Chapter 12	Achieve Chapter 1
4	09/09-09/15	Chapter 12	Achieve Chapter 2
5	09/16-09/22	Chapter 3	Achieve Chapter 12
6	09/23-09/29	Chapter 3 Chapter 15	
7	09/30-10/06	Chapter 15 Review	Achieve Chapter 3
8	10/07-10/13	Midterm Exam	Achieve Chapter 15
9	10/14-10/20	Chapter 4	
10	10/21-10/27	Chapter 4 Chapter 5	Achieve Chapter 4
11	10/28-11/03	Chapter 5	
12	11/04-11/10	Chapter 8	Achieve Chapter 5
13	11/11-11/17	Chapter 8 Chapter 9	Achieve Chapter 9
14	11/18-11/24	Chapter 9 Chapter 16	Achieve Chapter 9
15	11/25-12/01	Chapter 16 Chapter 17	Achieve Chapter 16
16	12/02-12/08	Chapter 17 Review	Achieve Chapter 17
	12/09-12/14	Final Exams Week	December 14, 1:30 pm-3:30 pm